

WO 2005/087789

SEQUENCE LISTING

<110> THE UNIVERSITY OF BRITISH COLUMBIA
RUSSELL, James A.
WALLEY, KEITH R.

<120> PROTEIN C AND ENDOTHELIAL PROTEIN C RECEPTOR POLYMORPHISMS AS
INDICATORS OF SUBJECT OUTCOME

<130> 80021-776

<140> NOT YET ASSIGNED

<141> 2005-03-18

<150> US 60/553,955

<151> 2004-03-18

<150> CA 2,479,968

<151> 2004-09-01

<150> US 60/616,640

<151> 2004-10-08

<150> US 60/632,934

<151> 2004-12-06

<160> 47

<170> PatentIn version 3.3

<210> 1

<211> 13870

<212> DNA

<213> Homo sapiens

<400> 1

gctctctaac	tcacagcgag	ctcgtgccc	aaagtcctgc	tccgggggct	tcctgggtgg	60
acctgacgcg	gttcgggtgc	acgtggggcg	actcacacct	gacaagtaaa	gcgggtgagg	120
ccgcgcctgt	gaagggcgcc	tggtcctcc	gcaggacggt	gcggcgcgcc	gccccggct	180
ggaaccaggt	gtaactgcag	agacctggg	atcgaggaa	cggctggcgg	caggactgtc	240
cctacctcga	gaaggtgacg	gggtttcctg	cgctgccagc	cgatgaggcg	gccgtgacgc	300
agcccgccgt	gcagagtccc	cgtcggccga	caggcgtgca	gagctctgca	gaggacctt	360
ccgccctctg	ggcagcctgc	caagccgtgg	cacccccaac	ccccagcaact	gggcaacttg	420
gagcatgca	gccgccctgg	ctcgtaccgg	tgccggtgct	ttgggcacct	gggctggttt	480
ggacatgggt	gccccgggca	gagtcattt	atgcagggtca	gaatcagtg	gtggagcctg	540
catagacttg	ccctggagcg	gctgcctgtg	ctgggggtgg	gaggagtaga	gggcgagaag	600
ttggtgggga	agggaagcgg	cgccaaaaga	ataccacaa	catcttgca	ctggaaggca	660
aagcagaggg	cagtgatctc	tgcagacttg	cgggggagac	gcctgaagca	aacagggaca	720
tacaagctgg	tgcttctgt	ggttggtgat	gggtcttca	tgcttctgt	ctgagttccc	780
agaagcttgt	ctctgctttt	ctaggcagct	gccacagcct	gtcacaaaaca	gctcctgggt	840
ctccacttct	catagtctcg	atttcaaaat	ccattgcctc	accctccacc	tcctctccac	900
ctccacccct	cctagcacct	cctgactgct	tgtgttctgt	gtctccccac	tgtctcccaa	960
cctgggggtg	ggttgggggg	gatgtctttc	ctcctgtctg	ctctttgatg	tccagctgaa	1020
gtgtcacctc	ctacaggcag	cctcccctgg	ctatgccagc	ttgtactgat	tgccctctcc	1080
tctgaattct	gtaagcattt	cctatgtgta	cctgcccctg	ggcaagggtg	gcctgacttg	1140
ttagagtgtt	agagttttac	cctgttcttc	taggagggcc	tggtaccacc	acagcccgag	1200
atggtgtggt	gcctcagcag	gaggcatctg	gttacaatca	acacaagctg	ttccagccaa	1260
tttaaagaaa	cttcaggagg	aatagggttt	taggagggga	tggggaccct	cctgcacccg	1320
aagccaggat	gtgccaccaa	tcataaggag	gcaggggcct	ccttcgcgtg	ctccctggga	1380
ctctcyaggt	gtcgtggcc	tcagccccc	ctgcacacc	tgcattcttc	ttctcatcag	1440
cttctctgc	tttaagcgta	aacatggatg	cccaggacct	ggcctcaatc	ttccgagtct	1500

ggtacttatg	gtgtactgac	agtgtgagac	cctaotcdtc	tgatcaatcc	cctgggttgg	1560
tgacttccct	gtgcaatcaa	tggaagccag	cgaggcaggg	tcacatgccc	cgttttagagg	1620
tgacagacttg	gagaaggaac	gtgggcaagt	cttcccagga	acaggtaggg	cagggaggaa	1680
aggggggcat	ctctggtgca	gccccggttcg	gagcaggaag	acgcttaata	aatgctgata	1740
gactgcagga	cacaggcaaa	ggtgctgagc	tggacccttt	atttctgccc	ttctcccttc	1800
tggcaccocg	gccaggaaat	tgctgcagcc	tttctggaat	cccgttcatt	tttcttactg	1860
gtccacaaaa	ggggccaaat	ggaagcagca	agacctgagt	tcaaattaaa	tctgccaaact	1920
accagctcag	tgaatctggg	cgagtaacac	aaaacttgag	tgctccttacc	tgaaaaatag	1980
aggttagagg	gatgctatgt	gccatttgtgt	gtgtgtgttg	gggggtgggga	ttgggggtga	2040
tttgtgagca	attggagggtg	aggggtggagc	ccagtgcCCA	gcacctatgc	actgggggacc	2100
caaaaaggag	catcttctca	tgattttatg	tatcagaaat	tgggatggca	tgtcattggg	2160
acagcgtctt	ttttcttgta	tgggtggcaca	taaatacatg	tgtcttataa	ttaatggat	2220
tttagatttg	acgaaatatg	gaatattacc	tgttgtgctg	atcttgggca	aactataata	2280
tctctgggca	aaaatgtccc	catctgaaaa	acagggacaa	cgttcctccc	tcagccagcc	2340
actatggggc	taaaatgaga	ccacatctgt	caagggtttt	gccctcacct	ccctccctgc	2400
tggayggcat	ccttggttrgg	cagaggtggg	cttcgggcag	aacaagccgt	gctgagctag	2460
gaccaggagt	gctagtgcc	ctgttttgtct	atggagaggg	aggectcagt	gctgaggggcc	2520
aagcaaatat	ttgtggttat	ggattaactc	gaactccagg	ctgtcatggc	ggcaggacgg	2580
cgwacttgca	gtatctccac	gacccgcccc	tgtgagtcce	cctccaggca	ggtctatgag	2640
gggtgtggag	ggagggctgc	ccccgggaga	agagagctag	gtggtgatga	gggctgaatc	2700
ctccagccag	ggtgctcaac	aagcctgagc	tctgggttaa	aggacacaag	gccctccaca	2760
ggccaggcct	ggcagccaca	gtctcaggctc	cctttgccat	gcgcctccct	ctttccaggc	2820
caagggtccc	cagggcccag	ggccattcca	acagacagtt	tggagcccag	gaccctccat	2880
tctcccacc	ccacttccac	ctttgggggt	gtcggatttg	aacaaatctc	agaagcggcc	2940
tcagagggag	tcggcaagaa	tggagagcag	ggtccggtag	ggtgtgcaga	gggccacgtg	3000
gcctatccac	tggggagggt	tccttgatct	ctggccacca	gggctatctc	tgtggccttt	3060
tggagcacct	ggtgggtttg	ggcaggggtt	gaatttccag	gcctaaaacc	acacaggcct	3120
ggccttgagt	cctggctctg	cgagtaatgc	atggatgtaa	acatggagac	ccaggacctt	3180
gcctcagctg	tccgagctctg	gtgcctgcag	tgtactgatr	gtgtgagacc	ctactcctgg	3240
aggatggggg	acagaatctg	atcgatcccc	tgggttggtg	acttccctgt	gcaatcaacg	3300
gagaccagca	agggttggat	ttttaataaa	ccacttaact	cctccgagtc	tcagtttccc	3360
cctctatgaa	atgggggtga	cagcattaat	aactacctct	tgggtggttg	tgagccttaa	3420
ctgaagtcat	aatatctcat	gtttactgag	catgagctat	gtgcaaagcc	tgttttgaga	3480
gctttatgtg	gactaactcc	tttaattctc	acaacaccct	ttaaggcaca	gatacaccac	3540
gttattccat	ccatttttaca	aatgaggaaa	ctgaggcatg	gagcagttaa	gcatcttgcc	3600
caacattgcc	ctocagtaag	tgctggagct	ggaatttgca	ccgtgcagtc	tggcttcatg	3660
gcctgcctctg	tgaatcctgt	aaaaattggt	tgaagacac	catgagtgtc	caatcaacgt	3720
tgactaatat	tctcagcca	gtcatcagac	cggcagaggc	agccacccca	ctgtccccag	3780
ggaggacaca	aacatcctgg	caccctctcc	actgcattct	ggagctgctt	tctagccagg	3840
cagtgtgagc	tcagccccac	gtagagcggg	cagccgaggc	cttctgaggc	tatgtctcta	3900
gcgaacaagg	accctcaaty	ccagcttccg	ccctgacggc	cagcacacag	ggacagccct	3960
ttcattccgc	ttccacctgg	gggtgcaggc	agagcagcag	cgggggttagg	cactgcccgg	4020
agctcagaag	tcctcctcag	acaggtgcc	gtgcctccag	aatgtggcag	ctcacaagcc	4080
tcctgtctgt	cgtggccacc	tggggaattt	ccggcacacc	agctcctctt	ggtaaggcca	4140
ccccaccct	accccgggac	ccttgtggcc	tctacaaggc	ctggtggcat	ctgcccaggc	4200
cttcacagct	tccaccatct	ctctgagccc	tgggtgaggt	gaggggcaga	tgggaatggc	4260
aggaatcaac	tgacaagtcc	caggtaggcc	agctgccaga	gtgccacaca	ggggctgcca	4320
gggcaggcat	gcgtgatggc	agggagcccc	gcgatgacct	cctaagctc	cctcctccac	4380
acgggggatgg	tcacagagtc	ccctgggcct	tccctctcca	cccactcact	ccctcaactg	4440
tgaagacccc	aggcccaggc	taccgtccac	actatccagc	acagcctccc	ctactcaaat	4500
gcacactggc	ctcacggctg	ccctgcccc	acccctttcc	tggctctccac	agccaacggg	4560
aggaggccat	gattcttggg	gaggtccgca	ggacacatgg	gcccctaaag	ccacaccagg	4620
ctgttgggtt	catttgtgcc	tttatagagc	tgtttatctg	cttgggacct	gcacctccac	4680
cctttcccaa	ggtgccctca	gctcaggcat	accctcctct	aggatgcctt	tycccccatc	4740
ccttcttgct	cacaccccca	acttgatctc	tccctcctaa	ctgtgccttg	cacccaagas	4800
agacacttca	caragcccag	gagacacctg	gggaccttc	ctgggtgata	ggtctgtcta	4860
tcctccagggt	gtccctgccc	aaggggagaa	gcattgggaa	tacttgggtg	ggggaggara	4920
ggaagactgg	ggggatgtgt	caagatgggg	ctgcaygtgg	tgtactggca	gaaggtgag	4980
aggatttaac	ttggcagcct	ttacagcagc	agccagggtc	tgagtactta	tctctggggc	5040
agggactgta	ttggatgttt	tacatgacgg	tctcatcccc	atgttttttg	atgagtaaat	5100
tgaaccttag	aaaggtaaa	acactggctc	aaggtcacac	agagatcggg	gtgggggttca	5160

cagggaggcc	tgctccatctc	agagcaaggc	ttcgtctctc	aactgccatc	tgcttccctgg	5220
ggaggaaaag	agcagaggac	ccctgcgcca	agccatgacc	tagaattaga	atgagtcttg	5280
agggggcgga	gacaagacct	tcccaggctc	tcccagctct	gcttcctcag	acccctcat	5340
ggccccagcc	cctcttaggc	ccctccacca	agggtgagctc	ccctccctc	caaaaccaga	5400
ctcagtgttc	tccagcagcg	agcgtgcccc	ccagggtgctg	cggatccgca	aacgtgccaa	5460
ctccttctctg	gaggagctcc	gtcacagcag	cotggagcgg	gagtgcatag	aggagatctg	5520
tgacttcgag	gaggccaagg	aaatttttcca	aaatgtggat	gacacagtaa	ggccaccatg	5580
ggtccagagg	atgaggetca	ggggcgagct	ggtaaccagc	aggggcctcg	aggagcaggt	5640
ggggactcaa	tgctgaggcc	ctcttaggag	ttgtgggggt	ggctgagtgg	agcgattagg	5700
atgctggccc	tatgatgtcg	gccaggcaca	tgtgactgca	agaaacagaa	ttcaggaaga	5760
agctccagga	aagagtgtgg	ggtgacccta	ggtggggact	cccaccagcc	acagtgtagg	5820
tggttcagtc	cacctccag	ccactgctga	gcaccactgc	ctccctctcc	cacctcaca	5880
agaggggacc	taaagaccac	cctgcttcca	cccactgcctc	tgctgatcag	ggtgtgtgtg	5940
tgaccgaaac	tactttctgt	ccacataaaa	tcgctcactc	tgtgcctcac	atcaaaggga	6000
gaaaatctga	ttgttcaggg	ggtcgggaaga	cagggtctgt	gtcctatttg	tctaagggtc	6060
agagtctttt	ggagccccca	gagtctctgtg	gacgtggccc	taggtagtag	ggtgagcttg	6120
gtaacggggc	tggttctctg	agacaaggct	cagaccgcct	ctgtccctgg	ggatcgcttc	6180
agccacyagg	acctgaaaat	tgtgcacggc	ctgggcccc	ttccaaggca	tccagggatg	6240
ctttccagtg	gaggctttca	gggcaggaga	ccctctggcc	tgcacctct	cttgccctca	6300
gctccacct	ccttgactgg	acccccatct	ggacctccat	ccccaccacc	tctttcccca	6360
gtggcctccc	tggcagacrc	cacagtgaact	ttctgcaggc	acatatctga	tcacatcaag	6420
tcccacacct	gctcccacct	cacctatggt	ctctcagccc	cagcaggcct	tggttgccct	6480
ctctgatgga	gcaggcatca	ggcacaggcc	gtgggtctca	acgtgggctg	ggtggtcctg	6540
gaccagcagc	agccgccgca	gcagcaaccc	tggtacctgg	ttaggaacgc	agacctctg	6600
cccccatcct	cccaactctg	aaaaacactg	gcttagggaa	aggcgcgatg	ctcaggggtc	6660
ccpcaaagcc	cgcaggcaga	gggagtgatg	ggactggaag	gaggccgagt	gacttggtga	6720
gggatccggg	tcccttgcat	gccagaggct	gctgtgggag	crgacagtgc	cagagagcagc	6780
actgcagctg	catggggaga	gggtgttgct	ccaggggacgt	gggatggagg	ctgggcgcgg	6840
gcgggtggcg	ctggaggggc	ggggaggggc	agggagcacc	agctcctagc	agccaacgac	6900
catcgggcgt	cgatccctgt	ttgtctggaa	gcctccctct	ccctgccc	ctcaccgcct	6960
gcctcgccc	acccgggcgc	gccccctccg	cacaccggct	gcaggagcct	gacgtgccc	7020
gctctctccg	cagctggcct	tctgggtccaa	gcacgtcggt	gagtgcgttc	tagatccccc	7080
gctggactac	cggcgcccgc	gccccctcggg	atctctggcc	gctgacccc	tactccgcct	7140
tgtgtgcag	acggtgacca	gtgcttggtc	ttgcccttgg	agcaccctg	cgccagcctg	7200
tgctgcgggc	acggcacgtg	catcgacggc	atcgccagct	tcagctgcga	ctgccgcagc	7260
ggctgggagg	gocgcttctg	ccagcgcggt	gagggggaga	ggtggatgct	ggcgggcggc	7320
ggggcggggc	tggggccggg	ttggggggcgc	ggcaccagca	ccagctgcc	gcgccctccc	7380
ctgcccgcag	aggtgagctt	cotcaattgc	tcgctggaca	acggcggtg	cacgcattac	7440
tgccctagagg	aggtgggctg	gogggcgctg	agctgtgcgc	ctggctacaa	gctgggggac	7500
gacctcctgc	agtgtcacc	cgcaggtgag	aagcccccaa	tacatcgccc	aggaatcacg	7560
ctgggtgctg	ggtgggcagg	ccctgacgg	ggcgccggc	ggggggctca	ggaggttttc	7620
tagggaggga	gcgaggaaca	gagttgagcc	ttggggcagc	ggcagacgcy	ccccaacacc	7680
ggggccactg	ttagcgcaat	cagcccgga	gctgggcgcy	ccctccgctt	tccctgcttc	7740
ctttcttctc	ggcgctcccc	ccttctctccg	ggcgccccct	gcgcacctgg	ggccacctcc	7800
tggagcgcaa	gcccagtggt	ggctccgctc	cccagctctga	gcgtatctgg	ggcgaggcgt	7860
gcagcgtcct	cctccatgta	gcctggctgc	gtttttctct	gacgttgtcc	ggcgtgcate	7920
gcatttccct	ctttaccccc	ttgcttccct	gaggagagaa	cagaatccc	attctgcctt	7980
cttctatatt	ttccttttta	tgcattttta	tcaaatttat	atatgtatga	aacttttaaaa	8040
atcagagtgtt	tacaactytt	acattttagc	atgtgtttcc	ttggcatggg	tccttttttc	8100
attcattttc	attaaaagg	ggaccctttt	aatgtggaaa	ttcctatctt	ctgcctctag	8160
ggacatttat	cacttatttc	ttctacaatc	tccccctttac	ttctctctatt	ttctctttct	8220
ggacctccca	ttattcagac	ctctttctctc	tagtttttatt	gtctctttcta	tttcccatct	8280
ctttgacttt	gtgtttttctt	tcagggaact	ttctttttttt	tctttttttt	tgagatggag	8340
tttctactctt	gttgctccag	gctggagtgc	aatgacgtga	tctcagctca	ccacaacctc	8400
cgctcctctg	attcaagcga	ttctcctgcc	gcagcctccc	gagtagctgg	gattacaggc	8460
atgcgccacc	acgcccagct	aatttttgtgt	tttttagtaga	gaaggggttt	ctcctgtgtg	8520
gtcaagctgg	tcttgaactc	ctgacctcag	gtgatccacc	tgcttggcc	tctaaagtg	8580
ctgggattac	aggcgtgagc	caccgcgcgc	agcctctttc	agggaaacttt	ctacaacttt	8640
ataattcaat	tcttctgcag	aaaaaaatctt	ttggccaggc	tcagttagctc	agaccaataa	8700
ttccagcact	ttgagaggct	gaggtgggag	gattgcttga	gcttgggagt	ttgagactag	8760
cctgggcaac	acagtgagac	cctgtctcta	tttttaaaaa	aagtaaaaaa	agatctaaaa	8820

atttaacttt	ttattttgaa	ataattagat	atttccäggä	agctgcaaag	aatgcctgg	8880
tgggcctgtt	ggcctgtggg	tttccctgcaa	ggccktgagg	aggccctgtc	attggcagaa	8940
ccccagatcg	tgagggtctt	ccttttaggc	tgcctttctaa	gaggactcct	ccaagctctt	9000
ggaggatgga	agacgctcac	ccatgggtgt	cggccctca	gagcagggtg	gggcagggga	9060
gctgggtgcct	gtgcaggctg	tggacatttg	catgactccc	tgtgggtcagc	taagagcacc	9120
actccttcct	gaagcggggc	ctgaagtccc	tagtcagagc	ctctgggttca	ccttctgcag	9180
gcaggagag	gggagtcmag	tcagttagga	gggctttcgc	agtttctctt	acaaactctc	9240
aacatgccct	cccacctgca	ctgccttcct	ggaagcccca	cagcctccta	tggttccgtg	9300
gtccagtcct	tcagcttctg	ggcgcccca	tcacgggctg	agatttttgc	tttccagtct	9360
gccaagtccg	ttactgtgtc	catccatctg	ctgtcagctt	ctggaattgt	tgctgttgtg	9420
ccctttccat	tcttttgtta	tgatgcagct	cccotgctga	cgacgtccca	ttgctctttt	9480
aagtctagat	atctggactg	ggcattcaag	gcccattttg	agcagagtgc	ggccgacctt	9540
tcagccctca	gttctccatg	gagtatgcgc	tctcttcttg	gcaggagggc	ctcacaacaa	9600
tgccatgcct	attgtaggag	ctctccaaga	atgctcacct	ccttctccct	gtaattcctt	9660
tcctctgtga	ggagctcagc	agcatcccat	tatgagacct	tactaatccc	agggatcacc	9720
cccaacagcc	ctgggggtaca	atgagctttt	aagaagttta	accacctatg	taaggagaca	9780
caggcagtgg	gcatgtctgc	ctggcctgac	tcttgccatt	gggtggtact	gtttgttgac	9840
tgactgactg	actgactgga	gggggtttgt	aatttgtatc	tcagggatta	ccccaacag	9900
ccctggggta	caatgagcct	tcaagaagtt	taacaacctc	tgtaaggaca	cacagccagt	9960
gggtgatgct	gcctggtctg	actcttgcca	ttcagtggca	ctgtttgttg	actgactgac	10020
tgactgactg	gctgactgga	gggggttcat	agctaataat	aatggagtgg	tctaagtatc	10080
attggttctt	tgaaccctgc	actgtggcaa	agtggccctc	aggctggagg	aggaccaaga	10140
caggagggca	gtctcgggag	gagtgcctgg	caggccctcc	accacctctg	cctacctcag	10200
tgaagttccc	ttgtgggagg	ccctgggaag	ggatggagaa	gaagcgagc	cactgaaac	10260
gagacacaga	agaccaagaa	gaccaagtag	atccggcgct	cattgatggg	aagatgacca	10320
ggcggggaga	cagccctctg	cagggtgggag	gcgaggcagc	accggctgct	cacgtgctgg	10380
gtccgggata	actgagtcca	tcctggcagc	tatgctcagg	gtgcagaaac	cgagagggaa	10440
gcgctgccat	tgcgtttggg	ggatgatgaa	ggtgggggat	gcttcaggga	aagatggacg	10500
caacctgagg	ggagaggagc	agccagggtg	ggtgagggga	ggggcatggg	ggcatggagg	10560
ggtctgcagg	agggagggtt	acagtttcta	aaaagagctg	gaaagacact	gctctgctgg	10620
cgggatttta	ggcagaagcc	ctgctgatgg	gagagggcta	ggagggaggg	ccgggcctga	10680
tgaccctcc	agcctccaca	tgggaactga	cacttactgg	gttccctctt	ctgcaggga	10740
tgggggagat	aggaaaccaac	aagtgggagt	atttgcctgt	gggactcaga	ctctgcäagg	10800
gtcaggaccc	caaagacccg	gcagcccagt	gggaccacag	ccaggacggc	ccttcaagat	10860
aggggctgag	ggäggoccaa	ggggaacatc	caggcagcct	gggggccaca	aagtcttctt	10920
ggaagacaca	aggcctggcc	aagcctctaa	ggatgagagg	agctcgctgg	gcgatgttgg	10980
gtgtggctga	gggtgactga	aacagtatga	acagtgcagg	aacagcatgg	gcaaaggcag	11040
gaagacaccc	tgggacaggc	tgacactgta	aaatgggcaa	aaatagaaaa	cgccagaaag	11100
ggcctaagcc	tatgcccata	tgaccaggga	accagggaaa	gtgcatatga	aaccagggtg	11160
ccctggactg	gaggetgtca	ggaggcagcc	ctgtgatgtc	atcatcccat	cccattccag	11220
tggttctctg	tggactcaaa	gaagaagctg	gcttgcgggg	cagtgtctcat	ccaccctccc	11280
tgggtgctga	cagcggccca	ctgcatggat	gagtccaaga	agctccttgt	caggcttggg	11340
atgggctgga	gccaggcaga	agggggctgc	cagaggcctg	ggtaggggga	ccaggcaggc	11400
tgttcagggt	tgggggaccc	cgtcccccag	gtgcttaagc	aagaggcttc	ttgagctcca	11460
cagaagggtg	ttggggggaa	gaggcctatg	tgccccacc	ctgcccacc	atgtacacc	11520
agtattttgc	agtagggggg	tctctggtgc	cctcttcgaa	tctgggcaca	ggtacctgca	11580
cacacatgtt	tgtgaggggg	tacacagacc	ttcacctctc	cactcccat	catgaggagc	11640
aggctgtgtg	ggcctcagca	cccttgggtg	cagagaccag	caaggcctgg	cctcagggct	11700
gtgcctccca	cagactgaca	gggatggagc	tgtacagagg	gagccctagc	atctgccaaa	11760
gccacaagct	gcttccctag	caggctgggg	gcacctatgc	attggccccc	atctatggca	11820
atctctggag	ggggggtctg	gctcaactct	ttatgccaaa	aagaaggcaa	agcatattga	11880
gaaaggccaa	atcacattt	cctacagcat	aatctatggc	cagtggcccc	ccgtggggct	11940
tggcttagaa	ttcccagggt	ctcttccag	ggaaccatca	gtctggactg	agaggacctt	12000
ctctctcagg	tgggacccgg	ccctgtcctc	cctggcagtg	ccgtgttctg	ggggtcctcc	12060
tctctgggtc	tcactgcccc	tggggtctct	ccagctacct	ttgctccayg	ttcctttgtg	12120
getctgggtc	gtgtctgggg	tttccagggg	tctcgggctt	ccctgctgcc	cattccttct	12180
ctggtctcac	ggctccgtga	ctcctgaaa	ccaaccagca	tcctaccyct	ttgggattga	12240
cacctgttgg	ccactccttc	tggcaggaaa	agtcacogtt	gatagggttc	cacggcatag	12300
acagggtggc	ccgcgccagt	gcctgggacg	tgtgggtgca	cagtctccgg	gtgaaccttc	12360
ttcaggccct	ctgcccaggc	ctgcaggggc	acagcagtg	gtgggcctca	ggaaagtgcc	12420
actggggaga	ggctccccgc	agcccactct	gactgtgccc	tctgccctgc	aggagagtat	12480

jacctgcggc	gctgggagaa	gtgggagctg	gacctggaca	tcaaggaggt	cttcgtccac	12540
cccaactaca	gcaagagcac	caccgacaat	gacatcgac	tgctgcacct	ggcccagccc	12600
gccacctct	cgcagaccat	agtgcccatc	tgctccccgg	acagcgccct	tgagagcgcc	12660
gagctcaate	aggccggcca	ggagaccctc	gtgacgggct	ggggctacca	cagcagccga	12720
gagaaggagg	ccaagagaaa	ccgcaccctc	gtcctcaact	tcatcaagat	tcccgtggtc	12780
ccgcacaatg	agtgcagcga	ggatcatgagc	aacatgggtg	ctgagaacat	gctgtgtgcg	12840
ggcatcctcg	gggaccggca	ggatgcctgc	gagggcgaca	gtggggggcc	catgggtcgcc	12900
tccttccacg	gcacctgggt	cctgggtgggc	ctgggtgagct	gggggtgaggg	ctgtgggctc	12960
cttcacaact	acggcggtta	caccaaagtc	agccgctacc	tcgactggat	ccatgggcac	13020
atcagagaca	aggaagcccc	ccagaagagc	tgggcacctt	agcgaccctc	cctgcagggc	13080
tgggcttttg	catggcaatg	gatgggacat	taaagggaca	tgtacaagc	acacgggcct	13140
gctgttctgt	ccttccatcc	ctcttttggg	ctcttctgga	gggaagtaac	atttactgag	13200
cacctgttgt	atgtcacatg	ccttatgaat	agaatcttaa	ctcctagagc	aactctgtgg	13260
gggtggggagg	agcagatcca	agttttgccg	ggctctaaagc	tgtgtgtgtt	gaggggggata	13320
ctctgtttat	gaaaaagaat	aaaaaacaca	accacgaagc	cactagagcc	ttttccaggg	13380
ctttgggaag	agcctgtgca	agccggggat	gctgaagggtg	aggcttgacc	aggctttccag	13440
ctagcccagc	tatgaggtag	acatgttttag	ctcatatcac	agaggaggaa	actgaggggt	13500
ctgaaagggt	tacatgggtg	agccaggatt	caaactctagg	tctgactcca	aaaccaggt	13560
gcttttttct	gttctccact	gtcctggagg	acagctgttt	cgacgggtgct	cagtgtggag	13620
gccactatta	gctctgtagg	gaagcagcca	gagaccacga	aagtgttggt	tcagcccaga	13680
atgagctcac	agtgtcgccg	gggaagctgt	ttaagaacaa	tgttacacca	tcatgaacag	13740
cagtaagaaa	gaggctctgg	cttaacctgg	cctgataggc	ctaattgaat	gagacagaaa	13800
taagtcaagg	atgctctgat	ttgaaatcat	gaagtacctg	atgaaaagaa	atgggtggtga	13860
gataaagctg						13870

<210> 2

<211> 7199

<212> DNA

<213> Homo sapiens

<400> 2

tagagaagcg	agaccacatc	tctagtaaaa	ataaaaaaaa	aatagctagg	cggtggtggca	60
cagtggcacg	tacctttagt	ctcagctact	cgggtggttg	aggtgggaga	atcacttgag	120
cccgggaggt	caagcctaca	attagctgtg	attgcttcac	tgactatag	cctgggcaac	180
agagctagac	cctgtctcaa	aaaaataata	ataaatttta	tatatatata	tgaggatgaa	240
attacatatg	tattatttga	acagaagtga	aatcttttct	tttttttttt	caaaaaaat	300
tttgccgcac	gccccaggct	aaaatgcagt	ggtgtgatct	gggcctctctg	aaacctccac	360
ctcccgggtt	caagggatcc	tcatgcctcg	gtctcccaag	tagctgggat	tacaggcatg	420
caccaccatg	cccagctaat	ttttgtattt	ttcgtagaga	cgttcgccat	attggccagg	480
ctgggtctcaa	actcctggcc	tcaagtgate	tgcccacctc	ggcctcccaa	agtgccagca	540
gcagtctcgg	aggagtgcact	ttaaagcttt	tctacttgct	tcctagagta	agggacgcac	600
tttacactgc	tatccaaaac	tcatcataga	aacatacaca	cacaaaacca	aagcacacat	660
atacaactga	gcaaatattt	catgacataa	cactttctct	tactaagggt	tacgcgtga	720
aattttgtat	tctgtcctat	ttcatttttt	aaaaatggta	accatgacct	gctaaattga	780
tttcattgtc	cactaataaa	ttatgacctc	agtttcaaaa	agattgcttt	aggtaaccaa	840
tcatcttctg	agatttatac	agattgctca	taattctctc	ctatttttta	aaaacatgct	900
gcagtgaact	gctttacact	catttttatga	ctacttctga	gaccaagatc	ccggattatg	960
taattgttat	ttacttaaaa	ttctggtaaa	atgtagccat	tatactggaa	aactaaattt	1020
taatcttgga	tctgtcacca	ccatgatata	taaacttttg	gcaagtcctt	gcacctctct	1080
ggacctcaat	ctcccatca	gcaacctgct	gacccactc	ccaggagtgt	gctctaagtt	1140
gaaagtagat	gcccacccc	ctgagtcagc	gccggcagga	cttctcacca	agcccttctc	1200
ccccttttcc	gctccctggt	cctggttcct	aggaagcagc	ccaaggagaa	gggaaaaggc	1260
aggtctgggc	aggaggagc	aatgaagggc	ggggcagagg	gagggcagga	gggaggccgg	1320
cccctagta	ggaaatgaga	cacagtagaa	ataacacttt	ataagcctct	tcctcctccc	1380
atctcctggc	ctccttccat	cctcctctgc	ccagactccg	cccctcccag	acggctctca	1440
cttctctttt	ccctagactg	cagccagcgg	agcccgagc	cggcccagagc	caggaaacca	1500
gggtccggagc	ctcaacttca	ggatgttgac	aacattgctg	ccgatactgc	tgctgtctgg	1560
ctgggccttt	tgtagccaag	acgcctcaga	tggtgagtcg	ggggcacatc	tcctgcctca	1620
ggatggttct	ggagaatctc	agtctatctg	ggcacatggc	aagaccacag	gagagcttat	1680
ctcacagcat	ctgtgtctgc	agctggctag	atctctctac	agggcaggca	gagtcttggg	1740
gactggttcg	tgtcccaaag	ccaagggtgag	ttagtacatt	taagcccctg	aaaaggggga	1800

gatgaaagag	gctaggggaa	acaggatgac	tggaaacatg	agaaagaaac	cagcagagag	1860
ggtaggagaa	tcagccccag	ggagagggga	gaaaggggaa	ctgaggggtga	tggtagatag	1920
gggtacatct	aggggagacg	ggaagaggct	cagaagagaa	gagaaatgga	gggaatggga	1980
agaccctggg	aaaactgatg	gaagaagtgg	gggaagagtg	gggcagagag	aggttagggg	2040
aggctagggg	aatggaagg	agactggtcg	cagctgggtg	aactggggag	aaagagatgc	2100
tgtgcctaata	agaacttatg	ggcgatcagg	ctactgaagt	ggccctgttt	aagcagaaaa	2160
gggagttatt	accctccatt	ataattgcac	aggggcctcc	tttccctctt	ctcacaatcc	2220
ccgtaacttc	agtctcccc	tcagagaggc	agcaaataat	aaccagtatt	caatgagtgc	2280
tcactatggt	taatacatgt	attgacccat	ttaacttgca	caaaccctta	aagggtgggtg	2340
atattattac	tatctccatt	ttatgaggag	gaaactgggt	cacagagtag	ttaaggacca	2400
tgtctagggg	tatccataaa	tatacttatt	cacatctgca	gatacaaaagc	acaacttctc	2460
aatgcaaac	acagacagga	cccactcaca	cacacagatt	tacaaccccg	gactcatcca	2520
aatgtgctct	gggcatcaac	tctgtgccag	cctcttttct	gggtgtagga	agcagagatt	2580
accaagcatg	gttccatagc	ctagaggagt	ccagtgtggc	ctgtgtgtgt	ttggagacag	2640
ccaggtagta	tcccgtaga	tacaactaa	tatatgggtg	tctgggatca	ctgaaacaga	2700
cacactgtgt	ctcgtggggc	atcagaaaaa	aatttccaag	aagagggcaa	ctgagctggg	2760
tcttttttct	tttgcctttc	tttctttttt	cttttttttt	tttttttttt	tttttgagat	2820
ggagtcttgt	gctgtcacc	aggctggaat	gcagtggcac	aatttcagct	aactgtaacc	2880
tccaactccc	aggttcaggc	gattctcctg	cctcagcctc	ctgagtagct	gggactacag	2940
gcatgtacca	ccagcctgg	ctaatatttg	tayttttagt	acagatgggg	tttcgcatg	3000
ttggccaggc	tggtcttgaa	tccctgacct	caagtgatcc	gcccgccctg	gcctcccaaa	3060
gtrctgggat	tacaggcatg	agccaccgag	ccagctctct	gagctgggtc	ttaaatcatg	3120
aataaacttc	gccaggcaga	aaaaggagg	cagagcaatc	ctgacatgct	attcatgtgt	3180
cagccaaagg	cagcatgagg	aatcccaact	agtttgatat	ataagcagcg	ggaagcggcc	3240
agaaaaggca	gcaggggcca	gggtctctagc	agccttgaat	gccaggctaa	agactctgga	3300
cttgatcctg	tggggaggca	gtgtagcaga	atggctgagt	gctggacttg	actgcctacg	3360
tgcaaacctt	ggctctgcta	cactatctct	gtctcagttt	cscatgtaga	ctgggggttaa	3420
taatagtagc	tattgcatta	agccactggg	gaaaggcaca	aagataataa	tgtatgtaaa	3480
gcccattgcc	caggttataa	taagcactga	atcgacattg	gctatgatta	tttttgatta	3540
atgaagggga	gggggttatg	gcactggaag	attttaagta	ggaaaaggac	atgatctcat	3600
ccctgggtca	gggtggaggtc	ggaatagaga	acggggagat	gaagtagaaa	gttactaccc	3660
cagctagatg	gagacggatg	aatcctgaat	caggggcagt	gaagaggaga	tggagaadag	3720
gcgatggaat	tgggaatttta	ttcagggtcag	gatttggtta	ccatttggtc	ctgtgtgtta	3780
caggaaacgg	ggggaggggg	agcagagggt	gaaaaaggag	gcagaaaggga	gtgtctcttc	3840
cactgcaggc	ctcagtttcc	tcactctgta	aacggagata	ataatccctg	tccgtctctc	3900
ctggcagagt	tactgtcagc	gtcaaacggg	agaagcggtg	ggagggcaca	ttatagttaa	3960
tgaaggggtc	agaaggcggg	cggccagcct	cgaggtaggg	ggttattatc	ttccgctgcc	4020
cgcgcgcgcc	tcccacgcgc	gccagggctg	aagytgactc	tgcccgcagg	cctccaaaga	4080
cttcataatg	tccagatctc	ctaactccgc	gaccctatc	acgtgtggta	ccagggcaac	4140
gcgtcgctgg	ggggacacct	aacgcacgtg	ctggaaggcc	cagacaccaa	caccacgatc	4200
attcagctgc	agcccttgca	ggagcccag	agctgggcgc	gcacgcagag	tggcctgcag	4260
tccatcctgc	tccagttcca	cggcctcgtg	cgcctgggtg	accaggagcg	gaccttgccc	4320
tgtgagtagg	cgcgcagcgg	gggcgggggc	tgggcggggc	tagtgggggc	ggggcctggc	4380
gggtgggggc	ggggcctggc	ggatggaggc	gggctggggc	ttgcaggggc	ccggcagcca	4440
ctggagctcg	gtggcgctg	ggcctttgaa	gattgctggg	tgggggctgg	agagaggcag	4500
ttgtccccgc	taagaaagcc	ccgactcggg	cggctcgtct	gctggcataa	cctcttgggg	4560
tagaccctgt	tggaaaggccc	tgacaccgtg	acgtcgaagg	tcccagaaa	actcctcacc	4620
cctcgcccca	cagtcccca	actccttttc	ttcatagatc	tccgtccttc	ccttcccaca	4680
gccccagca	cttcaccccc	caacctccag	ccacttctca	tacaagctga	tgacttcgct	4740
cttagctcca	ctcatgaccc	gaactcttcc	ccaaagacc	ccaagtctct	ctctcaaagc	4800
ccactcctt	ccccgtcaca	acccctaactc	cttcttctca	aagaccccaa	tttcttttct	4860
caaagcacca	agcaccactc	cgtccccctt	ccccaccat	catggccttt	aactcctttc	4920
tctcctagtc	ccccacccca	cccccyyttt	tttttttttt	tttttttttt	gagacggagt	4980
cttgcctctg	cgtccaggct	ggagtgcagt	ggcgcatct	cggctcactg	caacttcgcg	5040
ctcccggtt	caagcgattc	tcctgcctca	gcctcccaag	cagctggggc	tacaggcacc	5100
cgccaccacg	cccggctaata	tttttgtatt	tttagtagag	acgggggttc	gccatgttgg	5160
ccaggctggt	ctcgaactcc	tgacctcagg	cgatccacaa	gcctggcctc	ccaaagtgtc	5220
gggattacag	gcgtgagctg	ccgccccctg	cccagcctca	ccccctgttt	tttttttcta	5280
ttacagttag	acaaggcctg	acaattccct	tttttccatc	cagtcctctg	cccttctctt	5340
cttagcctct	cccaaggctaa	ccccaaccc	ctcctcacag	cccaggccc	ttctccccat	5400
agttccctga	cctagactcc	cctctcctca	cagcactgac	tcttgccctc	tcagtgtctt	5460

tcccccttgg	tgggcctcgc	ccacacctgg	caccctctct	gcacagtccc	ctgaycctga	5520
ctgtctatcc	acagttcctc	tgaccatccg	ctgcttcctg	ggctgtgagc	tgcctcccga	5580
gggctctaga	gcccattgtc	tcttcgaagt	ggctgtgaat	gggagctcct	ttgtgagttt	5640
ccggccggag	agagccttgt	ggcaggcaga	caccaggtc	acctccggag	tggtcacctt	5700
caccctgcag	cagctcaatg	cctacaaccg	cactcggat	gaactgcggg	aattcctgga	5760
ggacacctgt	gtgcagtatg	tgcagaaaca	tatttcgcgg	gaaaacacga	aaggatgat	5820
gggacggggc	ccaggcctgc	aagctgggga	gagggcgggt	tccagacaaa	tggatggacc	5880
tgaaggatgg	atgcctagag	caacaagagg	cccacagctg	gggggttggg	acagaacaca	5940
cgcagcttca	gtcagttggg	aaacgggtcc	ctttcctctg	gggcagaaac	gctttggggg	6000
ttgactcaaa	tcattggactc	cttggggggc	tattcttcgg	gctaactctt	tgcattgtct	6060
gcaggagacc	aaacaagccg	ctcctacact	tcgctgggtc	tgggcgtcct	ggtgggcagt	6120
ttcatcattg	ctgggtgtgg	tgtaggcatc	ttcctgtgca	caggtggacg	gcatgttaa	6180
ttactctcca	gccccctcag	aaggggctgg	attgatggag	gctggcaagg	gaaagtttca	6240
gctcactgtg	aagccagact	ccccaactga	aacaccagaa	ggtttggagt	gacagctcct	6300
ttcttctccc	acatctgccc	actgaagatt	tgagggaggg	gagatggaga	ggagaggtgt	6360
acaaagtact	tggtttgcta	agaacctaa	aacgtgtatg	ctttgctgaa	ttagtctgat	6420
aagtgaatgt	ttatctatct	ttgtggaaaa	cagataatgg	agttggggca	ggaagcctat	6480
ggcccatcct	ccaaagacag	acagaatcac	ctgaggcgtt	caaaagatat	aaccaaataa	6540
acaagtcac	cacaatcaaa	atacaacatt	caatacttcc	aggtgtgtca	gacttgggat	6600
gggacgctga	tataataggg	tagaaagaag	taacacgaag	aagtgggtgga	aatgtaaaat	6660
ccaagtcata	tggcagtgat	caattattaa	tcaattaata	atattaataa	atttcttata	6720
tttaaggcat	tgttatctcc	tccactttgc	aaaatttctg	gaaaagtaac	ctatacccat	6780
ttcttctgct	tccttatttc	tcaactcatc	tttttttttt	tttttttttt	tttgagacag	6840
agtcttgcct	tgttgccctag	gctggagtgc	aatggtgtga	tctcagctca	ctgcaacctc	6900
tgcctccggg	ttcagcaaat	tctcctgcct	cagcctccca	agcagctggg	attacagatg	6960
catgccacca	caccagcta	atttttgtat	tttttagtaga	gatgggggtt	caccacgttg	7020
gccatcctga	cctcgtgatc	cgcctacctc	ggcctcccca	agtgcctggg	ttagacgtga	7080
gccactgcgc	ctggtcttct	cactcattct	tagaccaggt	gcaatctgac	ttctctataa	7140
actactctga	gatcaccagt	aacctotaat	tgtcaaacca	tcaccctaca	tggatctctg	7199

<210> 3

<211> 400

<212> DNA

<213> Homo sapiens

<400> 3

ttccttgatc	tctggccacc	agggctatct	ctgtggcctt	ttggagcacc	tgggtggtttg	60
gggcaggggt	tgaatttcca	ggcctaaaac	cacacaggcc	tggccttgag	tectggctct	120
gcgagtaatg	catggatgta	aacatggaga	cccaggacct	tgcctcagtc	ttccagagtct	180
ggtgcctgca	gtgtactgat	rgtgtgagac	cctactcctg	gaggatgggg	gacagaatct	240
gatcgatccc	ctgggttggt	gacttcctct	tgcaatcaac	ggagaccagc	aagggttgga	300
tttttaataa	accacttaac	tcctccgagt	ctcagtttcc	ccctctatga	aatgggggttg	360
acagcattaa	taactacctc	ttgggttggt	gtgagcctta			400

<210> 4

<211> 400

<212> DNA

<213> Homo sapiens

<400> 4

cccctttcct	ggtctccaca	gccaacggga	ggaggccatg	attcttgggg	aggtccgcag	60
gacacatggg	cccctaaagc	cacaccagge	tgttggtttc	atttgtgect	ttatagagct	120
gtttatctgc	ttgggacctg	cacctccacc	ctttcccaag	gtgcctcag	ctcaggcata	180
ccctcctcta	ggatgccttt	ycccccatcc	cttcttgctc	acacccccaa	cttgatctct	240
ccctcctaac	tgtgcctgc	acccaagaca	gacacttcac	agagcccagg	agacacctgg	300
ggacccttcc	tgggtgatag	gtctgtctat	cctccagggt	tccctgcccc	aggggagaag	360
catgggggaat	acttggttgg	gggaggagag	gaagactggg			400

<210> 5

<211> 400

<212> DNA

<213> Homo sapiens

<400> 5

ggccctaaa	gccacaccag	gctgttggtt	tcatttgtgc	ctttatagag	ctgtttatct	60
gcttgggacc	tgcacctcca	ccctttccca	aggtgccctc	agctcaggca	tacctcctc	120
taggatgctt	tttcccccat	cccttcttgc	tcacaccccc	aaattgatct	ctccctccta	180
actgtgccct	gcaccaaga	sagacacttc	acagagccca	ggagacacct	ggggaccctt	240
cctgggtgat	aggtctgtct	atcctccagg	tgtccctgcc	caaggggaga	agcatgggga	300
atacttggtt	gggggaggag	aggaagactg	gggggatgtg	tcaagatggg	gctgcacgtg	360
gtgtactggc	agaagagtga	gaggatttaa	cttggcagcc			400

<210> 6

<211> 400

<212> DNA

<213> Homo sapiens

<400> 6

acaccaggct	gttggtttca	tttgtgcctt	tatagagctg	tttatctgct	tgggacctgc	60
acctccaccc	tttcccaagg	tgccctcagc	tcaggcatac	cctcctctag	gatgcctttt	120
cccccatccc	ttcttgetca	cacccccaac	ttgatctctc	cctcctaact	gtgccctgca	180
ccaagacag	acaattcaca	ragcccgagg	gacacctggg	gacccttctt	gggtgatagg	240
tctgtctatc	ctccagggtg	ccctgcccac	ggggagaagc	atggggaata	cttgggtggg	300
ggagggaragg	aagactgggg	ggatgtgtca	agatggggct	gcaygtggtg	tactggcaga	360
agagtgaag	gatttaactt	ggcagccttt	acagcagcag			400

<210> 7

<211> 400

<212> DNA

<213> Homo sapiens

<400> 7

ggagtgtggg	gggtggctga	gtggagcgat	taggatgctg	gccctatgat	gtcggccagg	60
cacatgtgac	tgcaagaaac	agaattcagg	aagaagctcc	aggaaagagt	gtgggggtgac	120
cctaggtggg	gactcccacc	agccacagtg	taggtgtgtc	agtccacctt	ccagccactg	180
ctgagcacca	ctgcctcccc	rtcccacctc	acaaagaggg	gacctaaaga	ccacctgtct	240
tccaccatg	cctctgtgta	tcagggtgtg	tgtgtgaccg	aaactcactt	ctgtccacat	300
aaaatcgctc	actctgtgcc	tcacatcaaa	gggagaaaat	ctgattgttc	aggggggtcgg	360
aagacagggt	ctgtgtccta	tttgtctaag	ggtcagagtc			400

<210> 8

<211> 400

<212> DNA

<213> Homo sapiens

<400> 8

tcagccacya	ggacctgaaa	attgtgcacg	gcctggggccc	ccttccaagg	catccaggga	60
tgctttccag	tggaggcttt	cagggcagga	gacctctctg	cctgcacctt	ctcttgccct	120
cagcctccac	ctccttgact	ggacccccat	ctggacctcc	atccccacca	cctctttccc	180
cagtggcctc	cctggcagac	gccacagtga	ctttctgcag	gcacatatct	gatcacatca	240
agtccccacc	gtgctcccac	ctcaccatg	gtctctcagc	cccagcaggc	cttggctggc	300
ctctctgatg	gagcaggcat	caggcacagg	ccgtgggtct	caacgtgggc	tgggtggtcc	360
tggaccagca	gcagccgccc	cagcagcaac	cctggtacct			400

<210> 9

<211> 400

<212> DNA

<213> Homo sapiens

<400> 9

cagcaaccct	ggtacctggt	taggaacgca	gacctctctg	cccctcctc	ccaactctga	60
aaaacactgg	cttagggaaa	ggcgcgatgc	tcaggggtcc	cccaaagccc	gcaggcagag	120

ggagtgatgg	gactggaagg	aggccgagtg	acttggtgag	ggattcgggt	cccttgcag	180
ccagaggctg	ctgtgggagc	rgacagtcgc	gagagcagca	ctgcagctgc	atggggagag	240
ggtgttgctc	caggagcgtg	ggatggaggc	tgggcgcggg	cgggtggcgc	tggagggcgg	300
gggaggggca	gggagcacca	gtccctagca	gccaaacgacc	atcgggcgtc	gatccctgtt	360
tgtctggaag	ccctccctc	ccctgcccgc	tcacccgctg			400

<210> 10

<211> 400

<212> DNA

<213> Homo sapiens

<400> 10

ggccccctgac	ggggcgcggc	gcgggggggct	caggagggtt	tctagggagg	gagcgaggaa	60
cagagttgag	ccttggggca	gcggcagacg	cgcccccaaca	ccggggccac	tggttagcga	120
atcagcccgg	gagctgggcg	cgccctccgc	tttccctgct	tcctttcttc	ctggcgctcc	180
cgccttcctc	cgggcgcccc	ctgcgcacct	ggggccacct	cctggagcgc	aagcccagtg	240
gtggctccgc	tccccagtct	gagcgtatct	ggggcgaggc	gtgcagcgtc	ctcctccatg	300
tagcctgggt	gcgtttttct	ctgacgttgt	ccggcggtgca	tcgcatttcc	ctctttaccc	360
ccttgcttcc	ttgaggagag	aacagaatcc	cgattctgccc			400

<210> 11

<211> 400

<212> DNA

<213> Homo sapiens

<400> 11

cgtgcagcgt	cctcctccat	gtagcctggc	tgcgtttttc	tctgacgttg	tccggcgctgc	60
atcgcatttc	cctctttacc	cccttgcttc	cttgaggaga	gaacagaatc	ccgattctgc	120
cttctcttat	attttccttt	ttatgcattt	taatcaaatt	tatatatgta	tgaactttta	180
aaaatcagag	ttttacaact	yttacatttc	agcatgctgt	tccttggcat	gggtcccttt	240
ttcattcatt	ttcattaaaa	ggtggaccct	tttaatgtgg	aaattcctat	cttctgcctc	300
tagggacatt	tatcacttat	ttcttctaca	atctcccctt	tacttctctt	atcttctctt	360
tctggacctc	ccattattca	gacctcttcc	ctctagtctt			400

<210> 12

<211> 400

<212> DNA

<213> Homo sapiens

<400> 12

gaggctgagg	tgggaggatt	gcttgagctt	gggagtttga	gactagcctg	ggcaacacag	60
tgagaccctg	tctctatttt	taaaaaaagt	aaaaaaagat	ctaaaaattt	aactttttat	120
tttgaaataa	ttagatat	ccaggaagct	gcaaagaaat	gcctgggtggg	cctgttggcc	180
tgtgggtttc	ctgcaaggcc	ktgggaaggc	cctgtcattg	gcagaacccc	agatcgtgag	240
ggctttccct	ttaggctgct	ttctaagagg	actcctccaa	gctcttggag	gatggaagac	300
gctcaccat	ggtgttcggc	ccctcagagc	agggtggggc	aggggagctg	gtgcctgtgc	360
aggctgtgga	catttgcatg	actccctgtg	gtcagctaa			400

<210> 13

<211> 400

<212> DNA

<213> Homo sapiens

<400> 13

cttgaggat	ggaagacgt	cacccatggt	gttcggcccc	tcagagcagg	gtggggcagg	60
ggagctggtg	cctgtgcagg	ctgtggacat	ttgcatgact	ccctgtggtc	agctaagagc	120
accactcctt	cctgaagcgg	ggcctgaagt	ccctagtcag	agcctctggt	tcaccttctg	180
caggcaggga	gaggggagtc	magtcagtga	ggagggtctt	cgcagtttct	cttaciaaact	240
ctcaacatgc	cctcccacct	gcactgcctt	cctggaagcc	ccacagcctc	ctatgggtcc	300
gtgggtccagt	ccttcagctt	ctgggcgcgc	ccatcacggg	ctgagatttt	tgctttccag	360
tctgccaaagt	cagttactgt	gtccatccat	ctgctgtcag			400

<210> 14
 <211> 400
 <212> DNA
 <213> Homo sapiens

<400> 14
 ctccctggca gtgccgtgtt ctgggggtcc tctctctctgg gtctcactgc ccctgggggtc 60
 tctccagcta cctttgctcc aygttccctt gtggctctgg tctgtgtctg gggtttccag 120
 gggctctcggg cttccctgct gccatttct tctctgggtct caccggtccg tgactcctga 180
 aaaccaacca gcatactacc yctttgggat tgacacctgt tggccactcc ttctggcagg 240
 aaaagtcacc gttgataggg ttccacggca tagacagggt gctccgcgcc agtgccctggg 300
 acgtgtgggt gcacagtctc cgggtgaacc ttcttcaggc cctctgccc ggcctgcagg 360
 ggcacagcag tgggtggggc tcaggaaagt gccactgggg 400

<210> 15
 <211> 401
 <212> DNA
 <213> Homo sapiens

<400> 15
 tgcttttctt tcttttttct tttttttttt tttttttttt tttgagatgg agtcttgtgc 60
 tgtcaccgca gctggaatgc agtggcacia ttccagctaa ctgtaacctc caactcccag 120
 gttcaggcga ttctcctgcc tcagcctcct gagtagctgg gactacaggc atgtaccacc 180
 acgcctgggt aatatttgta yttttagtag agatgggggt tcgccatgtt ggccaggctg 240
 gtcttgaatc cctgacctca agtgatccgc ccgcctcggc ctcccagaagt gctgggatta 300
 caggcatgag ccaccgcgcc cagtctctga gctgggtctt aaatcatgaa taaacttcgc 360
 caggcagaaa aagggaaggca gagcaatcct gacatgctat t 401

<210> 16
 <211> 400
 <212> DNA
 <213> Homo sapiens

<400> 16
 ttccagctaa ctgtaacctc caactcccag gttcaggcga ttctcctgcc tcagcctcct 60
 gagtagctgg gactacaggc atgtaccacc acgcctgggt aatatttgta cttttagtag 120
 agatgggggt tcgccatgtt ggccaggctg gtcttgaatc cctgacctca agtgatccgc 180
 ccgcctcggc ctcccagaagt rctgggatta caggcatgag ccaccgcgcc cagtctctga 240
 gctgggtctt aaatcatgaa taaacttcgc caggcagaaa aagggaaggca gagcaatcct 300
 gacatgctat tcatgtgtca gccaaaggca gcatgaggaa tcccactag tttgatatat 360
 aagcagcggg aagcggccag aaaaggcagc aggggcccagg 400

<210> 17
 <211> 400
 <212> DNA
 <213> Homo sapiens

<400> 17
 atcccacta gtttgatata taagcagcgg gaagcgggca gaaaaggcag cagggggccag 60
 gtctctagca gccttgaatg ccaggctaaa gactctggac ttgatcctgt ggggaggcag 120
 tgtagcagaa tggctgagtg ctggacttga ctgcctacgt gcaaaccctg gctctgctac 180
 actatctctg tctcagtttc scatgtagac tgggggttaat aatagtagct attgcattaa 240
 gccactgggg aaaggcacaa agataataat gtatgtaaag ccattgccc aggttataat 300
 aagcactgaa tcgacattgg ctatgattat ttttgattaa tgaaggggag ggggttatgg 360
 cactggaaga ttttaagtag gaaaaggaca tgatctcatc 400

<210> 18
 <211> 400
 <212> DNA
 <213> Homo sapiens

<400> 18
 agtttctctca tctgtaaaac ggagataata atccctgtcc tgtcctcctg gcagagttac 60
 tgtcagcgtc aaacgggaga agcgggtggga gggcacatta tagtttatga agggtcgaga 120
 aggcggggcgg ccagcctcga ggtaggggggt tattatcttc cgtgcccgc cgccccctcc 180
 cacgccggcc caggctgaag ytgactctgc ccgcaggcct ccaaagactt catatgctcc 240
 agatctccta ctccgcgcac ccctatcacg tgtggtacca gggcaacgcg tcgctggggg 300
 gacacctaac gcacgtgctg gaaggcccag acaccaacac cagcatcatt cagctgcagc 360
 ccttgcagga gcccgagagc tgggégcgca cgcagagtgg 400

<210> 19
 <211> 400
 <212> DNA
 <213> Homo sapiens

<400> 19
 ctccactcat gacccgaact ctcccccaa agaccccaag ttctttctctc aaagccccac 60
 tccttccccg tcacaaccct aactccttct tctcaaagac cccaatttct tttctcaaag 120
 caccaagcac cactccgtcc ccttcccccc accatcatgg cctttaactc ttttctctcc 180
 tagtccccca cccaccccc yttttttttt tttttttttt tttttgagac ggagtcttgc 240
 tctgtcgtcc aggtctggagt gcagtggcgc gatctcggct cactgcaact tccgcctccc 300
 gggttcaagc gattctcctg cctcagcctc ccaagcagct gggactacag gcaccccgca 360
 ccaagccccg ctaatttttt gtatttttag tagagacggg 400

<210> 20
 <211> 400
 <212> DNA
 <213> Homo sapiens

<400> 20
 tcatcacagt ccttggcccc ttctttctta gctcttaaca ggctaaccoc aaaccctcc 60
 tcacagcccc aggccttctt ccccatagtt ccttgacctt gactccccct tcctcacagc 120
 actgactctt gccttctcat gttcttttcc ccttgggtggg cctcgccccc acctggcacc 180
 ctctctgcac agtccccctga yctgactgt ctatccacag ttctcttgac catccgtgc 240
 ttcttgggct gtgagctgcc tcccgagggc tctagagccc atgtcttctt cgaagtggct 300
 gtgaatggga gctcctttgt gagtttccgg ccggagagag ccttgtggca ggcagacacc 360
 caggtcacct ccggagtggg caocttcacc ctgcagcagc 400

<210> 21
 <211> 400
 <212> DNA
 <213> Homo sapiens

<400> 21
 ggggtttgac tcaaatacatg gactccttgg gggcctatto ttctgggctaa ctctttgcat 60
 gttctgcagg gagccaaaca agccgtcctt acacttcgct ggtcctgggc gtctctgggtg 120
 gcagtttcat cattgctggg gtggctgtag gcattctcct gtgcacaggt ggacggcgat 180
 gtttaattact ctccagcccc stcagaaggg gctggattga tggaggctgg caagggaaag 240
 tttcagctca ctgtgaagcc agactcccca actgaaacac cagaagggtt ggagtgcagc 300
 ctcttttctt ctcccacatc tgcccactga agatttgagg gaggggagat ggagaggaga 360
 ggtggacaaa gtacttggtt tgctaagaac ctaagaacgt 400

<210> 22
 <211> 30
 <212> DNA
 <213> Homo sapiens

<400> 22
 gcagaggacc cttcsgccct ctgggcagcc 30

<210> 23
<211> 28
<212> DNA
<213> Homo sapiens

<400> 23
tcctctggaa acagscctc cttcatat 28

<210> 24
<211> 25
<212> DNA
<213> Homo sapiens

<400> 24
cacagccaaa aaagygtgaa cacia 25

<210> 25
<211> 32
<212> DNA
<213> Homo sapiens

<400> 25
tggggaactc actcwatttc catgctatct ct 32

<210> 26
<211> 26
<212> DNA
<213> Homo sapiens

<400> 26
tttcagttat atccrtattt ccttga 26

<210> 27
<211> 35
<212> DNA
<213> Homo sapiens

<400> 27
tagggtcatt atttygaaac taaaagcaga cctgg 35

<210> 28
<211> 29
<212> DNA
<213> Homo sapiens

<400> 28
acctctcgtg tatayactct ggtagggcc 29

<210> 29
<211> 30
<212> DNA
<213> Homo sapiens

<400> 29
gaagcgaccc agctyacctc agcagcttca 30

<210> 30
<211> 34
<212> DNA
<213> Homo sapiens

<400> 30
gacaaatctc ttgamatcag tatatggctg gttt 34

<210> 31
<211> 35
<212> DNA
<213> Homo sapiens

<400> 31
ttgcagtttt attaygatgt agttaggtgt agatt 35

<210> 32
<211> 35
<212> DNA
<213> Homo sapiens

<400> 32
ttttgtgtat aatamgtaca tatgaaaaac ttaaa 35

<210> 33
<211> 35
<212> DNA
<213> Homo sapiens

<400> 33
tatactctgc agtgrggggag atgggataat ggaca 35

<210> 34
<211> 35
<212> DNA
<213> Homo sapiens

<400> 34
ggaacataag atgartaagg catggattct gcatt 35

<210> 35
<211> 35
<212> DNA
<213> Homo sapiens

<400> 35
agatgcaggg caggygccc agtgcttctt gggaa 35

<210> 36
<211> 35
<212> DNA
<213> Homo sapiens

<400> 36
caccagcat gtgaytccac tatctgaaga cacag 35

<210> 37
<211> 35
<212> DNA
<213> Homo sapiens

<400> 37
ctgacagagt ggttmtaagg agagaaaccg aatag 35

<210> 38
<211> 35

<212> DNA

<213> Homo sapiens

<400> 38

tctttctcct gggtrtcctg ctagagtctg agcca

35

<210> 39

<211> 35

<212> DNA

<213> Homo sapiens

<400> 39

agagatttcc tctcygggcc taaaggtcaa acaac

35

<210> 40

<211> 35

<212> DNA

<213> Homo sapiens

<400> 40

gtaagaattg cgggragcgc ggctctagct cagct

35

<210> 41

<211> 35

<212> DNA

<213> Homo sapiens

<400> 41

aaagggaaag gaccsggttc acgcttccca ttccc

35

<210> 42

<211> 35

<212> DNA

<213> Homo sapiens

<400> 42

taaacaagtc atccmcaatc aaaatacaac attca

35

<210> 43

<211> 35

<212> DNA

<213> Homo sapiens

<400> 43

cccacccaaa caaamaacaa aaccattat tttat

35

<210> 44

<211> 35

<212> DNA

<213> Homo sapiens

<400> 44

agattagatt tggtytgtgg aattccaggg aacag

35

<210> 45

<211> 35

<212> DNA

<213> Homo sapiens

<400> 45

acattaaaaa aaaawtattt gtttagggtc tgtcc

35

<210> 46
 <211> 13869
 <212> DNA
 <213> Homo sapiens

<400> 46
 gctctctaac tcacagcgag ctctgtgccc aaagtctctgc tccggggggct tcttgggtgg 60
 acctgaccgc gttcgggtgc acgtggggcg actcacacct gacaagtaaa gcgggtgagg 120
 ccgcgcctgt gaaggcgcc tggctcctcc gcaggacggt gcggcgcggc gccccggct 180
 ggaaccaggt gtaactgcag agaccctggg atcgaggaa cggctggcgg caggactgtc 240
 cctacctga gaaggtgacg gggtttctctg cgtcgccagc cgatgaggcg gccgtgacgc 300
 agcccgccgt gcagagtccc cgtcgccga caggcgtgca gagctctgca gaggacctt 360
 ccgcctctg ggcagcctgc caagccgtgg caccaccaac cccagcaact gggcacttgg 420
 gagcattgca gccgcctgg ctctgacgac tgcgggtgct ttgggcacct gggctggtt 480
 ggacatgggt gccccgggca gagtccattt atgcaggta gaatcagtgt gtggagcctg 540
 catagacttg ccctggagcg gctgcctgtg ctgggggtggg gaggagtaga gggcgaag 600
 ttggtgggga agggaagcgg cgccaaaaga ataccacaa catcttgac ctggaaggca 660
 aagcagaggg cagtgatctc tgcagacttg cggggcgac gcctgaagca aacagggaca 720
 tacaagctgg tgccttctgt ggttgtgcat ggggtcttca tgcctcctgt ctgagtccc 780
 agaagcttgt ctctgctttt ctaggcagct gccacagcct gtcacaaaca gctcctggtt 840
 ctccacttct catagtctcg atttcaaaat ccattgcctc accctccacc tctctccac 900
 ctccacctt cctagcacct cctgactgct tgtgttctgt gtctcccccac tgtctccaa 960
 cctgggtgg ggttggggg gatgtcttct ctctgtctg ctctttgatg tccagctgaa 1020
 gtgtcacctc ctacaggcag cctccctgg ctatgccagc ttgtactgat tgccctctcc 1080
 tctgaattct gtaagcattt cctatgtgta cctgccctg ggcaagggtg gcctgacttg 1140
 ttagagtgtt agagttttac cctgttctc taggagggcc tggtagcacc acagccagc 1200
 atggtgtggt gcctcagcag gaggcatctg gttacaatca acacaagctg ttccagccaa 1260
 tttaaagaaa cttcaggagg aatagggtt taggagggca tggggaccct cctgcacctg 1320
 aagccaggat gtgccacca tcataaggag gcaggggctt ccttcgcctg ctccctggga 1380
 ctctcyaggt gtccgtggcc tcagccccc tctgcacacc tgcattctcc ttctcatcag 1440
 etctctctgc tttaaagcga aacatggatg ccaggacct ggctcaate ttccagctct 1500
 ggtacttatg gtgtactgac agtgtgagc cctactctc tgatcaatcc cctgggttgg 1560
 tgacttccct gtgcaatcaa tggagccag cgaggcaggg tcacatgccc cgtttagagg 1620
 tgcagacttg gagaaggaa gtgggcaagt cttccagga acaggtaggg caggaggaa 1680
 aggggggcat ctctggtgca gcccggttc gagcaggaag acgcttaata aatgctgata 1740
 gactgcagga cacaggcaaa ggtgctgagc tggaccctt atttctgccc ttctccctc 1800
 tggcaccctg gccaggaaat tgctgcagcc tttctggaat cccgttcatt tttctactg 1860
 gtccacaaaa gggggccaaat ggaagcagca agacctgagt tcaaattaaa tctgccaaact 1920
 accagctcag tgaatctggg cgagtaaac aaaacttgag tgtccttacc tgaataatag 1980
 aggttagagg gctatctatg gccatttgtt gctgtgtgtt ggggtgggga ttgggggtga 2040
 tttgtgagca attggaggtg aggggtggag ccagtgcaca actggggacc actggggacc 2100
 caaaaaggag catcttctca tgattttatg tatcagaaat tgggatggca tgtcattggg 2160
 acagcgtctt ttttcttgta tgggtggcaca taaatacatg tgtcttataa ttaatgggtat 2220
 tttagatttg acgaaatag gaatattacc tgttgtgctg atcttgggca aactataata 2280
 tctctgggca aaaatgtccc catctgaaaa acagggacaa cgttccctcc tcagccagcc 2340
 actatggggc taaaatgaga ccacatctgt caagggtttt gccctcacct cctccctgc 2400
 tggayggcat ccttggttrg cagaggtggg ctctgggagc aacaagccgt gctgagctag 2460
 gaccaggagt gctagtcca ctggttgtct atggagaggg aggcctcagt gctgagggcc 2520
 aagcaaatat ttgtggttat ggattaact gaactccagg ctgtcatggc ggcaggacgg 2580
 cgwacttgca gtatctccac gaccggccc tgtgagtccc cctccaggca ggtctatgag 2640
 ggggtgtggag ggagggctgc cccggggaga agagagctag gtggtgatga gggctgaatc 2700
 ctccagccag ggtgctcaac aagcctgagc ttggggtaaa aggacacaag gccctccaca 2760
 ggccaggcct ggcagccaca gtctcaggtc cctttgccat gcgcctccct ctttccaggc 2820
 caagggtccc caggggccag ggccattcca acagacagtt tggagcccag gaccctccat 2880
 tctccccacc ccacttccac ctttgggggt gtcggatttg aacaaatctc agaagcggcc 2940
 tcagagggag tcggcaagaa tggagagcag ggtccggtag ggtgtgcaga gggccacgtg 3000
 gcctatccac tggggagggt tccttgatct ctggccacca gggctatctc tgtggccttt 3060
 tggagcacct ggtgggttgg ggcaggggtt gaatttccag gcctaaaacc acacaggcct 3120
 ggccttgagt cctggctctg cgagtaatgc atggatgtaa acatggagac ccaggacctt 3180
 gcctcagctc tccgagtctg gtgcctgcag tgtactgatr gtgtgagacc ctactcctgg 3240

aggatggggg	acagaatctg	atcgatcccc	tgggttggtg	acttccctgt	gcaatcaacg	3300
gagaccagca	agggttggat	ttttaataaa	ccacttaact	cctccgagtc	tcagtttccc	3360
cctctatgaa	atggggttga	cagcattaat	aactacctct	tgggtggttg	tgagccttaa	3420
ctgaagtcac	aatatctcat	gtttactgag	catgagctat	gtgcaaagcc	tgttttgaga	3480
gctttatgtg	gactaactcc	tttaattctc	acaacaccct	ttaaggcaca	gatacaccac	3540
gttattccat	ccattttaca	aatgaggaaa	ctgaggcatg	gagcagttaa	gcattctgcc	3600
caacattgcc	ctccagtaag	tgctggagct	ggaatttgca	ccgtgcagtc	tggcttcacg	3660
gcctgccttg	tgaatcctgt	aaaaattgtt	tgaaagacac	catgagtgtc	caatcaacgt	3720
tagctaatat	tctcagccca	gtcatcagac	cggcagaggg	agccacccca	ctgtcccacg	3780
ggaggacaca	aacatcctgg	caccctctcc	actgcattct	ggagctgctt	tctaggcagg	3840
cagtgtgagc	tcagccccac	gtagagcggg	cagccgaggg	cttctgaggg	tatgtctcta	3900
gcgaacaagg	accctcaaty	ccagcttccg	ccttgacggc	cagcacacag	ggagcgcctc	3960
ttcattccgc	ttccacctgg	gggtgcaggc	agagcagcag	cgggggttag	cactgcacgg	4020
agctcagaag	tcctcctcag	acaggtgcc	gtgctccacg	aatgtggcag	ctcacaagcc	4080
tcctgtctgt	cgtggccacc	tggggaattt	ccggcacacc	agctcctctt	ggtaaggcca	4140
ccccaccctt	accccgggac	ccttgtggcc	tctacaaggg	ctgggtggcat	ctgcccaggc	4200
cttcacagct	tccaccatct	ctctgagccc	tgggtgaggt	gaggggcaga	tgggaaaggc	4260
aggaatcaac	tgacaagtcc	caggtagggc	agctgccaga	gtgccacaca	ggggctgcca	4320
gggcaggcat	gcgtgatggc	aggagcccc	gcgatgacct	cctaaagctc	cctcctccac	4380
acggggatgg	tcacagagtc	ccctgggctc	tccctctcca	cccactcaat	ccctcaactg	4440
tgaagacccc	aggcccaggc	taccgtccac	actatccagc	acagcctccc	ctactcaaat	4500
gcacactggc	ctcacggctg	ccctgcccc	accccttccc	tgggtctccc	agcccaacgg	4560
aggaggccat	gattcttggg	gaggtccgca	ggacacatgg	gcccctaaag	ccacacagg	4620
ctgttgggtt	catttctggc	tttatagagc	tgtttatctg	cttgggacct	gcacctccac	4680
cctttcccaa	ggtgcctcca	gctcaggcat	accctcctct	aggatgcctt	tycccccatc	4740
ccttcttggc	cacaccccca	acttgatctc	tccctcctaa	ctgtgcccctg	cacccaagas	4800
agacacttca	caragcccag	gagacacctg	gggacccctc	ctgggtgata	ggtctgtcta	4860
tcctccaggt	gtccctgccc	aaggggagaa	gcatggggaa	tacttgggtg	ggggaggara	4920
ggaagactgg	ggggatgtgt	caagatgggg	ctgcaygtgg	tgtactggca	gaagagttag	4980
aggatttaac	ttggcagcct	ttacagcagc	agccagggct	tgagtactta	tctctggggc	5040
agggactgta	ttggatgttt	tacatgacgg	tctcatcccc	atgttttttg	atgagttaaat	5100
tgaaccttag	aaaggtaaag	acactggctc	aaggtcacac	agagatcggg	gtggggttca	5160
cagggaggcc	tgtccatctc	agagcaaggc	ttcgtcctcc	aactgccatc	tgttctctgg	5220
ggaggaaaag	agcagaggac	ccctgcgcca	agccatgacc	tagaattaga	atgagtcttg	5280
agggggcgga	gacaagacct	tcccaggctc	tcccagctct	gcttctcag	acccctcat	5340
ggccccagcc	cctcttaggc	ccctccacca	agggtgagctc	ccctccctc	caaaaccaga	5400
ctcagtgttc	tccagcagcg	agcgtgcccc	ccaggtgctg	cggatccgca	aacgtgccaa	5460
ctccttcttg	gaggagctcc	gtcacagcag	cctggagcgg	gagtgcatag	aggagatctg	5520
tgacttcgag	gaggccaagg	aaattttcca	aaatgtggat	gacacagtaa	ggccaacctg	5580
ggtccagagg	atgaggctca	ggggcgagct	ggtaaccagc	aggggcctcg	aggagcaggt	5640
ggggactcaa	tgctgaggcc	ctcttaggag	ttgtgggggt	ggctgagtgg	agcgaatagg	5700
atgctggccc	tatgatgtcg	gccaggcaca	tgtgactgca	agaaacagaa	ttcagggaaga	5760
agctccagga	aagagtgtgg	ggtgacccta	ggtggggact	cccaccagcc	acagtgtagg	5820
tggttcagtc	caccctccag	ccactgotga	gcaccactgc	ctccccrtcc	cacctcacia	5880
agaggggacc	taaagaccac	cctgcttcca	cccatgcctc	tgtgatcag	ggtgtgtgtg	5940
tgaccgaaac	tcacttctgt	ccacataaaa	tgcctcactc	tgtgcctcac	atcaaaggga	6000
gaaaaatctga	ttgttcaggg	ggtcggaaga	cagggtctgt	gtcctatttg	tctaagggtc	6060
agagtccttt	ggagccccc	gagtcctgtg	gacgtggccc	taggtagtag	ggtgaagcttg	6120
gtaacggggc	tggcttctctg	agacaaggct	cagaccgcgt	ctgtccctgg	ggatcgcttc	6180
agccacyagg	acctgaaaat	tgtgcacggc	ctggggcccc	ttccaaggca	tcaggggatg	6240
ctttccagtg	gaggctttca	gggcaggaga	ccctctggcc	tgcacctctc	cttgcctcca	6300
gcctccacct	ccttgactgg	acccccatct	ggacctccat	ccccaccacc	tctttcccca	6360
gtggcctccc	tggcagacrc	cacagtgact	ttctgcaggc	acatatctga	tcacatcaag	6420
tccccaccgt	gctcccacct	cacccatggt	ctctcagccc	cagcaggcct	tggctggcct	6480
ctctgatgga	gcaggcatca	ggcacaggcc	gtgggtctca	acgtgggctg	ggtggtcctg	6540
gaccagcagc	agccgcgcga	gcagcaaccc	tggtagctgg	ttaggaacgc	agaccctctg	6600
ccccactcct	cccaactctg	aaaaacactg	gcttagggaa	aggcgcgatg	ctcaggggtc	6660
ccccaaagcc	cgcaggcaga	gggagtgtatg	ggactggaag	gagggcgatg	gacttgggtga	6720
gggattcggg	tcctttgcat	gccagaggct	gctgtgggag	crgacagtcg	cgagagcagc	6780
actgcagctg	catggggaga	gggtgttgct	ccaggggacgt	gggatggagg	ctgggcgcgg	6840
gcgggtggcg	ctggaggggc	ggggaggggc	agggagcacc	agctcctagc	agccaacgac	6900

catcgggcgt	cgatccctgt	ttgtctggaa	gccctcccct	cccctgcccg	ctcaccgcgt	6960
gccctgcccc	acccggggcg	gccccctccg	cacaccggct	gcaggagcct	gacgtgccc	7020
gctctctccg	cagctggcct	tctgggccaa	gcacgtcggt	gagtgcgttc	tagatccccg	7080
gctggactac	cggcgcccg	gccccctggg	atctctggcc	gctgaccccc	taccccgcc	7140
tgtgtcgcag	acggtgacca	gtgcttggtc	ttgcccttgg	agcacccgtg	cgccagcctg	7200
tgctgcgggc	acggcacgtg	catcgacggc	atcggcagct	tcagctgcga	ctgccgcagc	7260
ggctgggagg	gccgcttctg	ccagcgcggt	gagggggaga	ggtggatgct	ggcggggcgg	7320
ggggcggggc	tggggccggg	ttggggggcg	ggcaccagca	ccagctgcc	gcgcctccc	7380
ctgcccgcag	aggtgagctt	cctcaattgc	tcgctggaca	acggcggtcg	cacgcattac	7440
tgcttagagg	aggtgggctg	gcggcgctgt	agctgtgcgc	ctggctacaa	gctgggggac	7500
gacctcctgc	agtgtcacc	cgcagggtgag	aagcccccaa	tacatgcgcc	aggaatcacg	7560
ctgggtgcgg	ggtgggcagg	cccctgacgg	ggcgcggcgc	gggggggtca	ggagggttct	7620
tagggaggga	gcgaggaa	gagttgagcc	ttggggcagc	ggcagacgcg	ccccaacacc	7680
ggggccactg	ttagcgcaat	cagcccggga	gctggggcg	ccctccgctt	tccctgcttc	7740
ctttcttct	ggcgctccc	ccttccctcc	ggcgccccctg	cgcacctggg	gccacctcct	7800
ggagcgcaag	cccagtggtg	gctccgctcc	ccagtctgag	cgtatctggg	gcgaggcggtg	7860
cagcgtcctc	ctccatgtag	cctggctgcg	ttttctctctg	acgttgctccg	gcgtgcatcg	7920
catttccctc	tttaccctcc	tgcttccctg	aggagagaa	agaatcccga	ttctgccttc	7980
ttctatatatt	tcctttttat	gcattttaat	caaatttata	tatgtatgaa	actttaaaaa	8040
tcagagtttt	acaactytta	catttcagca	tgctgttct	tggcatgggt	ccttttttca	8100
ttcattttca	ttaaagggtg	gacctttta	atgtggaaat	tccatcttcc	tgcctctagg	8160
gacattttac	acttatttct	tctacaatct	cccctttact	tctctattt	tctcttctg	8220
gacctcccat	tattcagacc	tcttccctct	agttttattg	tctcttctat	ttcccatctc	8280
tttgactttg	tgttttcttt	cagggaaact	tctttttttt	cttttttttt	gagatggagt	8340
ttcactcttg	ttgtcccagg	ctggagtgc	atgacgtgat	ctcagctcac	cacaacctcc	8400
gcctcctgga	ttcaagcgat	tctcctgcg	cagcctcccg	agtagctggg	attacaggca	8460
tgcgccacca	cgccagcta	attttgtgtt	tttagtagag	aaggggttcc	tccgtgttgg	8520
tcaagctggt	cttgaactcc	tgacctcagg	tgatccacct	gccttggcct	cctaaagtgc	8580
tgggattaca	ggcgtgagcc	accgcgcccc	gcctctttca	gggaacttcc	tacaacttta	8640
taattcaatt	cttctgcaga	aaaaaatttt	tggccaggct	cagtagctca	gaccaataat	8700
tcacagactt	ttagaggctg	aggtgggagg	attgcttgag	cttgggagt	tgagactagc	8760
ctgggcaaca	cagtgaagcc	ctgtctctat	ttttaaaaaa	agtaaaaaaa	gatctaaaaa	8820
tttaactttt	tattttgaaa	taattagata	tttccaggaa	gctgcaaaga	aatgcctggt	8880
gggcctgttg	gcctgtgggt	ttcctgcaag	gccttgggaa	ggcctgtca	ttggcagaac	8940
cccagatcgt	gagggccttc	cttttaggct	gcttcttaag	aggactcctc	caagctcttg	9000
gaggatggaa	gacgtcacc	catgggtgtc	ggccccctcag	agcagggtgg	ggcaggggag	9060
ctggtgcctg	tgacggctgt	ggacatttgc	atgactccct	gtggctcagct	aagagcacca	9120
ctccttccctg	aagcggggcc	tgaagtccct	agtccagacc	tctggttcac	cttctgcagg	9180
cagggagagg	ggagtcmagt	cagtgaagg	ggcttctgca	gttctcttta	caaactctca	9240
acatgcctc	ccacctgcac	tgcttccctg	gaagccccac	agcctcctat	ggttccgtgg	9300
tccagtcctt	cagcttctgg	gcgcccccat	cacgggctga	gatttttgc	ttccagctctg	9360
ccaagtcagt	tactgtgtcc	atccatctgc	tgctcagctc	tggaattgtt	gctgtgtgtc	9420
cctttccatt	cttttgttat	gatgcagctc	ccctgctgac	gacgtcccat	tgctctttta	9480
agtctagata	tctggactgg	gcattcaagg	cccattttga	gcagagtcgg	gccgaccttt	9540
cagccctcag	ttctccatgg	agtatgcgt	ctcttcttgg	cagggaggcc	tcacaaacat	9600
gccatgccta	ttgtaggagc	tctccaagaa	tgctcacctc	cttctccctg	taattccttt	9660
cctctgtgag	gagctcagca	gcacccatt	atgagacctt	actaatccca	gggatcacce	9720
ccaacagccc	tgggtacaa	tgagctttta	agaagtttaa	ccacctatgt	aaggagacac	9780
aggcagtggt	cgatgctgcc	tggcctgact	cttgccattg	ggtggtactg	tttgttgact	9840
gactgactga	ctgactggag	ggggtttgta	atgtgtatct	cagggattac	ccccaacagc	9900
cctggggtac	aatgagcctt	caagaagttt	aacaacctat	gtaaggacac	acagccagtg	9960
ggtgatgctg	cctggtctga	ctcttgccat	tcagtggcac	tgtttgttga	ctgactgact	10020
gactgactgg	ctgactggag	ggggttcata	gctaataatta	atggagtggg	ctaagtatca	10080
ttggttccct	gaacctgca	ctgtggcaaa	gtggcccaaca	ggctggaggga	ggaccaagac	10140
aggagggcag	tctcgggagg	agtgcctggc	aggccccctca	ccacctctgc	ctacctcagt	10200
gaagttccct	tgtgggaggc	cctggaagcg	gatggagaag	aagcgcagtc	acctgaaacg	10260
agacacagaa	gaccaagaag	accaagtaga	tccgcggctc	attgatggga	agatgaccag	10320
gcggggagag	agccccctggc	aggtgggagg	cgaggcagca	ccggctgctc	acgtgctggg	10380
tccgggagca	ctagtcctat	cctggcagct	atgctcaggg	tgcaaaaaacc	gagaggggaag	10440
cgctgccatt	gcgtttgggg	gatgatgaag	gtgggggatg	cttcaggga	agatggacgc	10500
aacctgaggg	gagaggagca	gccagggtgg	gtgaggggag	gggcatgggg	gcattggaggg	10560

gtctgcagga	gggaggggta	cagtttctaa	aaagagctgg	aaagacactg	ctctgctggc	10620
gggatttttag	gcagaagccc	tgctgatggg	agagggctag	gagggagggc	cgggcctgag	10680
taccctccca	gcctccacat	gggaactgac	acttactggg	ttccctctc	tgccaggcat	10740
gggggagata	ggaaccaaca	agtgggagta	tttgccctgg	ggactcagac	tctgcaaggg	10800
tcaggacccc	aaagacccgg	cagccagtg	ggaccacagc	caggacggcc	cttcaagata	10860
ggggctgagg	gaggcccaag	gggaacatcc	aggcagcctg	ggggccacaa	agtcttcctg	10920
gaagacaçaa	ggcctggcca	agcctctaag	gatgagagga	gctcgtctgg	cgatgttggg	10980
tgtggctgag	ggtgactgaa	acagtatgaa	cagtgcagga	acagcatggg	caaaggcagg	11040
aagacaccct	gggacaggct	gacactgtaa	aatgggcaaa	aatagaaaac	gccagaaaagg	11100
gcctaagcct	atgcccata	gaccagggaa	cccaggaaa	tgcatatgaa	accaggtgc	11160
cctggactgg	aggctgtcag	gaggcagccc	tgtgatgtca	tcacccacc	ccattccagg	11220
tggctcctgct	ggactcaaag	aagaagctgg	cctgcggggc	agtgtcatc	cacccctcct	11280
gggtgctgac	agcggccac	tgcatggatg	agtccaagaa	gctccttgc	aggcttggtg	11340
tgggctggag	ccaggcagaa	gggggctgac	agagggcctg	gtagggggac	caggcaggct	11400
gttcagggtt	gggggacccc	gctcccagg	tgcttaagca	agaggcttct	ttagctccac	11460
agaagggtgt	tggggggaag	aggcctatgt	gccccacccc	tgccaccca	tgtacacca	11520
gtattttgca	gtaggggggt	ctctggtgcc	ctcttcgaat	ctgggcacag	gtacctgcac	11580
acacatgttt	gtgaggggct	acacagacct	tcacctctcc	actccactc	atgaggagca	11640
ggctgtgtgg	gcctcagcac	ccttgggtgc	agagaccagc	aaggcctggc	ctcagggctg	11700
tgcctcccac	agactgacag	ggatggagct	gtacagaggg	agccctagca	tctgccaag	11760
ccacaagctg	cttccctagc	aggctggggg	cacctatgca	ttggccccga	tctatggcaa	11820
tttctggagg	gggggtctgg	ctcaactctt	tatgccaaaa	agaaggcaaa	gcataattgag	11880
aaaggccaaa	ttcacatttc	ctacagcata	atctatggcc	agtggcccc	cgtggggctt	11940
ggtctagaat	tccagggtgc	tctcccagg	gaaccatcag	tctggactga	gaggaccttc	12000
tctctcagg	gggacccggc	cctgtcctcc	ctggcagctg	cgtgttctgg	gggtcctcct	12060
ctctgggtct	cactgcccct	ggggctctct	cagctacctt	tgctccaygt	tcctttgtgg	12120
ctctggtctg	tgtctgggg	ttccaggggt	ctcgggcttc	cctgctgccc	atctcttctc	12180
tggtctcacg	gctccgtgac	tcctgaaaac	caaccagcat	cctaccyctt	tgggattgac	12240
acctgttggc	cactccttct	ggcaggaaaa	gtcacctgtg	ataggggtcc	acggcataga	12300
cagggtggctc	cgcgccagtg	cctgggacgt	gtgggtgcac	agtctccggg	tgaaccttct	12360
tcaggccctc	tgcccaggcc	tgcaagggca	cagcagtggg	tgggcctcag	gaaagtgcc	12420
ctggggagag	gctccccgca	gcccactctg	actgtgocct	ctgcccctga	ggagagtatg	12480
acctgctggc	ctgggagaag	tgggagctgg	acctggacat	caaggaggtc	tctgtccacc	12540
ccaactacag	caagagcacc	accgacaatg	acatcgcact	gctgcacctg	gcccagcccg	12600
ccacctctc	gcagaccata	gtgcccctct	gcctcccggg	cagcggccct	gcagagcgcg	12660
agctcaatca	ggccggccag	gagaccctcg	tgacgggctg	gggtaccac	agcagccgag	12720
agaaggaggc	caagagaaaac	cgcaccttcg	tcctcaactt	catcaagatt	cccgtggctc	12780
cgcacaatga	gtgcagcgag	gtcatgagca	acatgggtgtc	tgagaacatg	ctgtgtgcgg	12840
gcacctcctg	ggaccggcag	gatgcctgcg	aggcgacag	tgggggggcc	atggtcgcct	12900
ccttccacgg	caactgggtc	ctgggtgggc	tggtgagctg	gggtgagggc	tgtgggctcc	12960
ttcacacta	cggcgtttac	accaaagtca	ggcgctacct	cgactggatc	catgggcaca	13020
tcagagacaa	ggaagccccc	cagaagagct	gggcacctta	gcgacctcc	ctgcagggtc	13080
gggtttttgc	atggcaatgg	atgggacatt	aaagggacat	gtaacaagca	caccggcctg	13140
ctgttctgtc	cttccatccc	tcttttgggc	tcttctggag	ggaagtaaca	tttactgagc	13200
acctgttgta	tgtcacatgc	cttatgaata	gaatcttaac	tcctagagca	actctgtggg	13260
gtggggagga	gcagatccaa	gttttgcggg	gtctaaagct	gtgtgtgttg	aggggggatac	13320
tctgtttatg	aaaaagdata	aaaaacacaa	ccacgaagcc	actagagcct	tttccagggc	13380
tttgggaaga	gcctgtgcaa	gocgggggatg	ctgaagggtga	ggcttgacca	gctttccagc	13440
tagccagct	atgaggtaga	catgttttagc	tcatatcaca	gaggaggaaa	ctgaggggtc	13500
tgaaagggtt	acatgggtga	gccaggattc	aatctaggt	ctgactcaca	aaccagggtg	13560
ctttttctctg	ttctccactg	tcctggagga	cagctgtttc	gacggtgctc	agtgtggagg	13620
ccactattag	ctctgtaggg	aagcagccag	agaccagaaa	agtgttggtt	cagcccagaa	13680
tgagctcaca	gtgtcgoggg	ggaagctgtt	taagaacaat	gttacacat	catgaacagc	13740
agtaagaaag	aggctctggc	ttaacctggc	ctgataggcc	taattgaatg	agacagaaat	13800
aagtcaagga	tgctctgatt	tgaaatcatg	aagtacctga	tgaaaagaaa	tggtgggtgag	13860
ataaagctg						13869

<210> 47

<211> 399

<212> DNA

<213> Homo sapiens

<400> 47

ggcccctgac	ggggcgcggc	gcgggggggct	caggaggggtt	tctagggagg	gagcgaggaa	60
cagagttgag	ccttggggca	gcggcagacg	cgccccaaca	cgggggccac	tgtagcgca	120
atcagcccgg	gagctgggcg	cgccctccgc	ttccctgct	tcctttcttc	ctggcgctcc	180
cgccttctc	cgggcgcccc	tgcgcacctg	gggccacctc	ctggagcgca	agcccagtgg	240
tggtccgct	ccccagtctg	agcgtatctg	gggcgaggcg	tgcagcgtcc	tcctccatgt	300
agcctggctg	cgtttttctc	tgacgttgct	cggcgtgcat	cgcatttccc	tcctttacccc	360
cttgcttcct	tgaggagaga	acagaatccc	gattctgcc			399